

Patient ID SA00720117	Patient Name SAMPLEREPORT, FAPCP ABN	Birth Date 2020-07-29	Gender M	Age 3 W
Order Number SA00720117	Client Order Number SA00720117	Ordering Physician CLIENT, CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 25 Aug 2020 12:00		

Fatty Acid Profile, Comprehensive, S

Octanoic Acid, C8:0	MCR	Palmitoleic Acid, C16:1w7	MCR
8 nmol/mL	Reference Value 7-63	273 nmol/mL	Reference Value 20-1020
Decenoic Acid, C10:1	MCR	Palmitic Acid, C16:0	MCR
3.4 nmol/mL	Reference Value 0.8-4.8	1496 nmol/mL	Reference Value 720-3120
Decanoic Acid, C10:0	MCR	g-Linolenic Acid, C18:3w6	MCR
6 nmol/mL	Reference Value 2-62	 2 nmol/mL	Reference Value 6-110
Lauroleic Acid, C12:1	MCR	a-Linolenic Acid, C18:3w3	MCR
2.9 nmol/mL	Reference Value 0.6-4.8	 5 nmol/mL	Reference Value 10-190
Lauric Acid, C12:0	MCR	Linoleic Acid, C18:2w6	MCR
17 nmol/mL	Reference Value 6-190	 340 nmol/mL	Reference Value 350-2660
Tetradecadienoic Acid, C14:2	MCR	Oleic Acid, C18:1w9	MCR
1.2 nmol/mL	Reference Value 0.3-6.5	1556 nmol/mL	Reference Value 250-3500
Myristoleic Acid, C14:1	MCR	Vaccenic Acid, C18:1w7	MCR
12 nmol/mL	Reference Value 1-46	 80 nmol/mL	Reference Value 140-720
Myristic Acid, C14:0	MCR	Stearic Acid, C18:0	MCR
82 nmol/mL	Reference Value 30-320	 125 nmol/mL	Reference Value 270-1140
Hexadecadienoic Acid, C16:2	MCR		
12 nmol/mL	Reference Value 4-27		
Hexadecenoic Acid, C16:1w9	MCR		
43 nmol/mL	Reference Value 21-69		

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
MCR	Mayo Clinic Laboratories - Rochester Main Campus	200 First Street SW, Rochester, MN 55905	William G. Morice M.D. Ph.D	24D0404292

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EPA, C20:5w3


1 nmol/mL

MCR

Reference Value
2-60

Arachidonic Acid, C20:4w6

716 nmol/mL

MCR

Reference Value
110-1110

Mead Acid, C20:3w9

15 nmol/mL

MCR

Reference Value
8-60

h-g-Linolenic Acid, C20:3w6

115 nmol/mL

MCR

Reference Value
30-170

Arachidic Acid, C20:0


10 nmol/mL

MCR

Reference Value
30-120

DHA, C22:6w3

146 nmol/mL

MCR

Reference Value
10-220

DPA, C22:5w6

18 nmol/mL

MCR

Reference Value
3-70

DPA, C22:5w3

39 nmol/mL

MCR

Reference Value
6-110

DTA, C22:4w6

38 nmol/mL

MCR

Reference Value
2-50

Docosenoic Acid, C22:1

6 nmol/mL

MCR

Reference Value
2-20

Docosanoic Acid, C22:0

39.2 nmol/mL

MCR

Reference Value
0.0-96.3

Nervonic Acid, C24:1w9


156 nmol/mL

MCR

Reference Value
30-150

Tetracosanoic Acid, C24:0

34.7 nmol/mL

MCR

Reference Value
0.0-91.4

Hexacosenoic Acid, C26:1


2.2 nmol/mL

MCR

Reference Value
0.2-2.1

Hexacosanoic Acid, C26:0

0.42 nmol/mL

MCR

Reference Value
0.00-1.30

Pristanic Acid, C15:0(CH3)4

0.06 nmol/mL

MCR

Reference Value
0.00-0.60

Phytanic Acid, C16:0(CH3)4

0.27 nmol/mL

MCR

Reference Value
0.00-5.28

Triene Tetraene Ratio

0.021

MCR

Reference Value
0.017-0.083

Total Saturated


1.0 mmol/L

MCR

Reference Value
1.2-4.6

Total Monounsaturated

2.0 mmol/L

MCR

Reference Value
0.3-4.6

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Total Polyunsaturated

3.3 mmol/L

MCR

Reference Value
1.1–4.9

Total w3

0.2 mmol/L

MCR

Reference Value
0.0–0.4

Total w6

3.1 mmol/L

MCR

Reference Value
0.9–4.4

Total Fatty Acids

4.6 mmol/L

MCR

Reference Value
3.3–14.0

Interpretation

1 MCR

In this sample, the concentration of linoleic acid and alpha-linoleic were reduced. These findings are suggestive of a nutritional deficiency of fatty acids.

ADDITIONAL INFORMATION

Gas Chromatography-Mass Spectrometry (GC-MS) Stable Isotope Dilution Analysis

Received: 26 Aug 2020 13:16

Reported: 01 Sep 2020 15:58

Laboratory Notes

- 1 This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

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